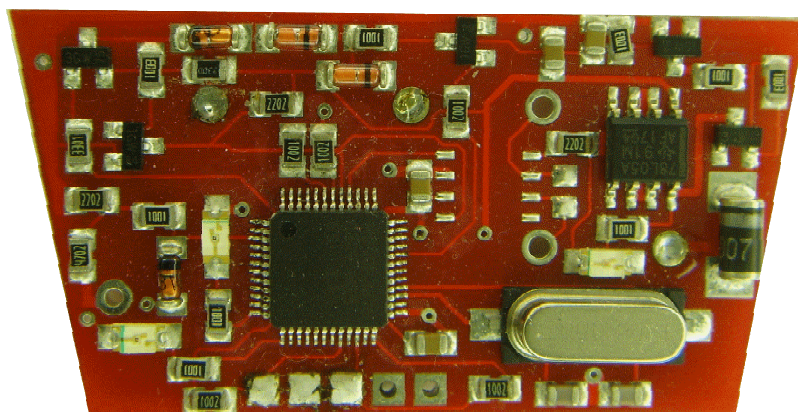


# User Manual Happylightshow Software Version 219

for Astra H / Zafira B

≡≡≡ HAPPYLIGHTSHOW.DE ≡≡≡



Happylightshow manual  
V219 Revision 1.0

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## 1.Introduction

The HAPPYLIGHTSHOW is a additional electronical device, that communicates through the on-board CAN-Bus system.

Therefore additional new functions are possible.

The HAPPYLIGHTSHOW is very easy to install, because it's only being put on the diagnostic link connector (DLC).

-> No wiring or soldering necessary

## 2.1 Einbau Astra H

mounting place:  
diagnostic link connector (DLC) underneath the cover of  
the handbrake

procedure:

Holt the device a little bit angular and put the two pins on  
top inside Pin 1 and 4 of the DLC.

After that, put the single Pin inside Pin 16 of the DLC  
(see figure)



## 2.2 Einbau Zafira B

Mounting place:

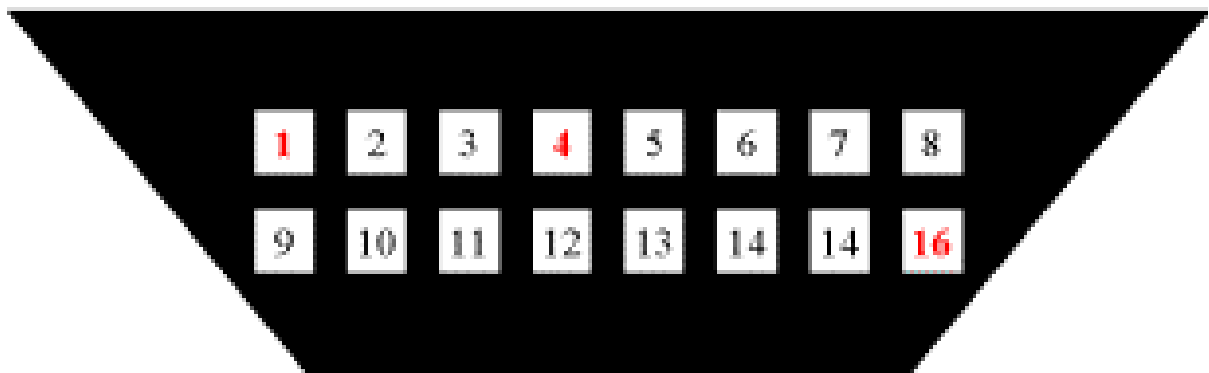
Diagnostic link connector (DLC) behind ashtray

procedure:

Put the **black** wire into Pin 4 of the DLC,

Then put te **red** wire into Pin 16,

Finally put in the **pink** wire into Pin1 of the DLC.  
(see figure)



## 2.3 functional test

Activate the ignition.

If the installation was successful the Leds on the HAPPYLIGHTSHOW will work like this:

Green Led lights up continuous

Red Led toggels every second

→ Installation successful, go on with setup procedure

## 3 Setup Parameters

### 3.1 Activation setup modus

Requirements:

**Ignition on, Engine off. Clutch must not be pushed and Lightswitch off**

Procedure:

**Push Brake, FlashToPass and TurnLight Left** at the same time.

*Advice:*

*Best way to do it is: PushBrake and FlashToPass and then add TurnLightLeft.  
The odometer is now in the parameter menu.*

### 3.2 Change parameters Adjustment

The value of the digits will be count upwards by pushing the **brake pedal**.  
Changing from digit to digit is made with **clutch pedal**.

Cars with *automatic* Transmission have the possibility to change between the digits by using the **parking light switch** (on/off.)

### 3.3 Save Adjustments & Resetting Trip Computer

To save the adjustments you have to push turn switch **right** once.  
Now "333333" should be shown inside the odometer

**The Setup procedure is now finished.**

## 3.Setup Parameters

### 3.4 Meaning of the digits

#### Digit 6:

- 0 = menulayer 0
- 1 = menulayer 1
- 2 = menulayer 2
- 3 = menulayer 3

#### Digit 0.1: OPC

- 0 = OPC Scan off
- 1 = OPC Scan on

#### Digit 0.2: Coolant temperature / Trip Computer

- 0 = off
- 1 = with rear window heater switch\*
- 2 = until Engine reaches 75 °C
- 3 = with Centrallocking
- 4 = until Engine reaches 75 °C **OR** rear window heater\*
- 5 = until Engine reaches 90 °C **OR** rear window heater\*
- 6 = Trip Computer 1\*
- 7 = Trip Computer 2
- 8 = till Engine reaches 75°C, then vehicle speed

\*only with automatic climate control

#### Digit 0.3: WTTC Function rear

- 0 = off
- 1 = Reverse Light + License plate
- 2 = Taillight + License plate
- 3 = Reverse Light + Taillight + License plate
- 4 = Red Taillights without foglamp + License plate (Caravan)
- 5 = Turn Lights + License plate

#### Digit 0.4: WTTC Function front

- 0 = off
- 1 = Low Beam + Parking light
- 2 = Low Beam + Parking light + Repeater
- 3 = Fog lamp + Parking light
- 4 = Fog lamp + Parking light + Repeater
- 5 = Parking light
- 6 = Low Beam + Fog lamp + Parking light + Repeater
- 7 = Turn Lights
- 8 = High Beam + Parking light + Fog lamp + Repeater



menulayer

and warning over 105 °C  
and warning over 105 °C  
and warning over 105 °C  
and warning over 105 °C  
and warning over 105 °C



## 3.Setup Parameters

### **Digit 0.5: (WTTC Function Time)**

Number multiplied by 10 seconds (e.g. 3 = 30 seconds)

### **Digit 1.1 (WTTC Activation)**

0 = always when Door locked/unlocked

1 = only when door get locked/unlocked twice

### **Digit 1.2: (Thief Protection simulation)**

0 = Simulation off

1 = Simulation on

### **Digit 1.3: (daytime running light)**

0 = DRL off

1 = DRL with foglights on

2 = DRL with parkinglight on

### **Digit 1.4: (Speedlock)**

0 = Speedlock off

1 = Speedlock 1 on

2 = Speedlock 2 on

### **Digit 1.5: (Chirp)**

0 = Chirpfunction on

1 = Chirpfunction off

### **Digit 2.1: (hazardlight function)**

0 = hazardlightfunction off

1 = hazardlightfunction on

### **Digit 2.2: (Distance Signal – for internal Navi)**

0 = Distance impulses off

1 = Distance impulses on

## 4.Functional Description

### Lightshow:

Requirements: Ignition on, engine off

Procedure:

**Push Brake, FlashToPass** and **TurnLight Left** at the same time.

*Advice:*

*Best way to do it is: PushBrake and FlashToPass and then add TurnLightLeft.*

-> highbeam and turnlight telltales begin to flash

To switch between lightsamples push brake pedal, the speedometer

Shows the sample (180km/h = Sample 18)

To switch between the variations use parklightswitch on/off,

The tachometer shows variation (2000 rpm = variation 2)

Variation 1: lights changing clockwise/anticlockwise

Variation 2: lights clockwise

Variation 3: lights anticlockwise

### Particel Filter Regeneration Display:

When the vehicle is cleaning the particel filter, you will see the following message in your odometer. (df = DieselFilter)



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## 4.Functional Description

### OPC-Scan:

Speedometer and tachometer go to limit and back when activating the ignition

### Speedlock 1:

Car locks automatically if faster than 20km/h

Unlocks manually.

### Speedlock 2:

Car locks automatically if faster than 20km/h

Unlocks automatically if the engine is turned off.

### Trip Computer 1:

Shows following informations inside the odometer:

Engine Coolant Temperature      (first digit = 0)

Actual Consumption on 100km      (first digit = 1)

Average Consumption on 100km      (first digit = 2)

True Speed      (first digit = 3)

To switch between the values press rear window heater double

To reset the average consumption setup the devices once.

## 4.Functional Description

### Trip Computer 2:

Trip Computer 2 shows the Coolant Temperature until 75°C (first digit = 0)

Then it shows the Actual Consumption on 100km for 10 seconds (first digit = 1) and then for 2 seconds the Average Consumption (first digit = 2).

To reset the Average Consumption setup the devices once

### Thief Protection Simulation:

The Led inside the central door lock button flashes, if car is locked  
( it looks like a regular system)

### WTTC Function:

The driving lights light up, if car gets locked/unlocked.

WTTC Activation:

0 = always if car gets locked/unlocked

1 = only when car gets locked/unlocked twice

## 4.Functional Description

### Daytime Running Light:

Fog or Parking Lights are activated meanwhile the lightswitch is off, or the lightsensor recognizes daylight.

### Chirp function:

Vehicle honks two times when opening the car and once when closing the car.

### Hazardlight function:

Hazardlight will flash while the hatchback is open

### Distance Signal Function:

You have a distance signal for a internal Navigation System.

See installation guide document

## 5. Legal meaning

The devices has no general type approval, thus it is not allowed to use it within the laws of road traffic.

By noncompliance the user will be responsible for any loss.